Claims

What is claimed is:

1.   A method of operating a search application via networkable media in a wireless client device, comprising the steps of:

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(a)   selecting at least one search option for execution on the wireless client device;

(b)   using the search application to receive transmissable media content via a wireless medium; and

(c)   storing search data entered by a user in a file associated with

10   the wireless client device.

At step 1012, a mobile XML description may be obtained of a document data or view. At step 1014, an XSL style sheet may be read from an App Digest. At step 1016, the appropriate style sheet may be compiled (or generated). At step 1018, the XML document may be transformed according to the style sheet using an XSLT

5   processor and return the resulting page of data to a request handler or other authorized entity or unit. Alternatively, the process may proceed directly from step 1014 to step 1018 (as indicated by the dashed line) if the stylesheet does not require further processing.

FIG. 11 illustrates a method for formatting a document (or other page of data)

10   in an appropriate format for a mobile device according to another embodiment of the invention. At step 1110, a document may be pre-processed to replace one or more elements that may not be able to be displayed or are otherwise hindered (for example, encrypted fields or file attachments), that may include text indicating portions that may have been removed are altered.

15   This embodiment may enable a servlet to compile a design stylesheet at run-time for a new type of mobile device.

At step 1112, a mobile XML description may be obtained of a document data or view. At step 1114, an XSL stylesheet may be read from an App Digest. At step 1116, an XSL stylesheet may be retrieved. Step 1118 may then retrieve a design form or view for the XSL stylesheet. In step 1120, an XML description for the design may

20   be obtained. After obtaining the XML description, step 1122 may then compile a

and that person's interactions with personal digital devices. Bluetooth may be a packet-based communications medium and may accommodate both data and voice transmissions.

The foregoing description of a system and method for providing customizable options on a wireless device is illustrative, and changes in the above construction and sequences of operation may occur to persons skilled in the art. For example, although multiple modules are shown for carrying out the invention, additional or fewer modules may be used and multiple modules may be positioned in various locations. Additionally, although the invention is intended to be practiced with Lotus®, Notes® applications, the invention may be practiced with various applications because the invention uses XML to represent data and design. It should be noted, however, that the invention is not limited to XML and may be practiced using another language. Other embodiments, uses and advantages of the present invention will be apparent to those skilled in the art from consideration of the specification and practice of the invention disclosed herein. The specification and examples should be considered exemplary only. The scope of the invention is accordingly intended to be limited only by the following claims.

comprises at least one of e-mail data, address data, calendar data, form data, navigation data, and search data.

6.   The method of claim 1, further comprising a step of:

    f)   communicating the transmissable media content from a data

5   source remote from the wireless client device.

7.   The method of claim 1, wherein the file is stored in the wireless client device.

8.   The method of claim 1, wherein the file is stored remotely from the wireless client device.

10   9.   A system for operating a search application via networkable media in a wireless client device, comprising:

    an input interface to accept at least one search option for execution on the wireless client device;

    a processor unit, communicating with the input interface, to use the

15   search application to receive transmissable media content via a wireless medium; and

    a storage unit, communicating with the input interface, the storage unit configured to store search data entered by a user in a file associated with the wireless client device.

20   10.   The system of claim 9, wherein the processor unit is configured to select at least one of a form use option, a view customization option, a short cut option, a sort option, an edit search option, a store option, and an edit form option.

11.   The system of claim 9, wherein the receiving of the transmissable media content comprises communicating via at least one of a Bluetooth protocol, a Wireless Application protocol, a Global System Mobile protocol, and a Wireless Markup Language protocol.

5   12.   The system of claim 9, wherein the search data comprises at least one of search terms, search strings, form preferences, view preferences and user customized features.

13.   The system of claim 9, wherein the transmissable media content comprises at least one of e-mail data, address data, calendar data, form data,

10   navigation data, and search data.

14.   The system of claim 9, wherein the transmissable media content is transmitted from a data source remote from the wireless client device.

15.   The system of claim 9, wherein the file is stored in the wireless client device.

15   16.   The system of claim 9, wherein the file is stored remotely from the wireless client device.

17.   A system for operating a search application via networkable media in a wireless client device, comprising:

input interface means for accepting at least one search option for

20   execution on the wireless client device;

processor means, communicating with the input interface means, for receiving transmissable media content via a wireless medium by using a search application; and

storage means, communicating with the input interface means, for

storing search data entered by a user in a file associated with the wireless

client device.

18.   The system of claim 17, wherein the processor means is configured to

5   select at least one of a form use option, a view customization option, a short

cut option, a sort option, an edit search option, a store option, and an edit form

option.

19.   The system of claim 17, wherein the receiving transmissable media

content comprises communicating via at least one of a Bluetooth protocol, a

10   Wireless Application protocol, a Global System Mobile protocol, and a

Wireless Markup Language protocol.

20.   The system of claim 17, wherein the search data comprises at least one

of search terms, search strings, form preferences, view preferences, and user

customized features.

15   21.   The system of claim 17, wherein the transmissable media content

comprises at least one of e-mail data, address data, calendar data, form data,

navigation data, and search data.

22.   The system of claim 17, wherein the transmissable media content is

transmitted from a data source remote from the wireless client device.

20   23.   The system of claim 17, wherein the file is stored in the wireless client

device.

24.   The system of claim 17, wherein the file is stored remotely from the

wireless client device.

25. A storage medium for storing machine readable code, the machine readable code being executable to operate a search application via networkable media in a wireless client device, the storage medium comprising:

(a) selecting code that selects at least one search option for execution on

5   the wireless client device;

(b) receiving code that uses the search application to receive transmissable media content via a wireless medium; and

(c) storing code that stores search data entered by a user in a file associated with the wireless client device.

10 26. The storage medium of claim 25, further comprising option selecting code that selects at least one of a form use option, a view customization option, a short cut option, a sort option, an edit search option, a store option and an edit form option.

27. The storage medium of claim 25, further comprising protocol code that

15   communicates via at least one of a Bluetooth protocol, a Wireless Application protocol, a Global System Mobile protocol, and a Wireless Markup Language protocol.

28. The storage medium of claim 25, wherein the search data comprises at least one of search terms, search strings, form preferences, view preferences,

20   and user customized features.

29. The storage medium of claim 25, wherein the transmissable media content comprises at least one of e-mail data, address data, calendar data, form data, navigation data, and search data.

30. The storage medium of claim 25, further comprising communicating code that communicates the transmissable media content from a data source remote from the wireless client device.

31. The storage medium of claim 25, wherein the file is stored in the wireless client device.

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32. The storage medium of claim 25, wherein the file is stored remotely from the wireless client device.